John Zweizig

List of Publications by Citations

36 papers	2,675 citations	18 h-index	38 g-index
38 ext. papers	3,534 ext. citations	7.6 avg, IF	2.06 L-index

#	Paper	IF	Citations
36	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. *Nature Photonics*, **2013**, 7, 613-619	33.9	572
35	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2018**, 21, 3	32.5	543
34	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. *Living Reviews in Relativity*, **2016**, 19, 1	32.5	393
33	Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. *Physical Review Letters*, **2019**, 123, 231107	7.4	182
32	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. *Classical and Quantum Gravity*, **2016**, 33,	3.3	155
31	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2020**, 23, 3	32.5	144
30	Sensitivity and performance of the Advanced LIGO detectors in the third observing run. *Physical Review D*, **2020**, 102,	4.9	84
29	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. *Astrophysical Journal*, **2010**, 715, 1453-1461	4.7	79
28	The LSC glitch group: monitoring noise transients during the fifth LIGO science run. *Classical and Quantum Gravity*, **2008**, 25, 184004	3.3	65
27	Improving astrophysical parameter estimation via offline noise subtraction for Advanced LIGO. *Physical Review D*, **2019**, 99,	4.9	58
26	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. *Astrophysical Journal*, **2021**, 909, 218	4.7	46
25	The basic physics of the binary black hole merger GW150914. *Annalen Der Physik*, **2017**, 529, 1600209	2.6	45
24	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. *Astrophysical Journal*, **2017**, 841, 89	4.7	42
23	Methods for reducing false alarms in searches for compact binary coalescences in LIGO data. *Classical and Quantum Gravity*, **2010**, 27, 165023	3.3	41
22	Pseudorapidity distribution of charged particles in pp collisions at s=630 GeV GeV. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1997**, 401, 176-180	4.2	38
21	Long-term study of the seismic environment at LIGO. *Classical and Quantum Gravity*, **2004**, 21, 2255-2273	3.3	29
20	Development and test of a large silicon strip system for a hadron collider Beauty trigger. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1992**, 317, 28-46	1.2	21

19	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. *Physical Review Letters*, **2017**, 118, 151102	7.4	18
18	Reducing scattered light in LIGO□ third observing run. *Classical and Quantum Gravity*, **2021**, 38, 025016	3.3	17
17	First Demonstration of Early Warning Gravitational-wave Alerts. *Astrophysical Journal Letters*, **2021**, 910, L21	7.9	15
16	Environmental noise in advanced LIGO detectors. *Classical and Quantum Gravity*, **2021**, 38, 145001	3.3	15
15	Approaching the motional ground state of a 10-kg object. *Science*, **2021**, 372, 1333-1336	33.3	14
14	Quantum correlation measurements in interferometric gravitational-wave detectors. *Physical Review A*, **2017**, 95,	2.6	9
13	Point absorbers in Advanced LIGO. *Applied Optics*, **2021**, 60, 4047-4063	1.7	8
12	LigoDV-web: Providing easy, secure and universal access to a large distributed scientific data store for the LIGO scientific collaboration. *Astronomy and Computing*, **2017**, 18, 27-34	2.4	6
11	HERA-B data acquisition system. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2004**, 525, 566-581	1.2	6
10	The small angle spectrometer of experiment UA8 at the. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1993**, 327, 412-426	1.2	6
9	LIGO□ quantum response to squeezed states. *Physical Review D*, **2021**, 104,	4.9	5
8	Effects of transients in LIGO suspensions on searches for gravitational waves. *Review of Scientific Instruments*, **2017**, 88, 124501	1.7	4
7	Improving the robustness of the advanced LIGO detectors to earthquakes. *Classical and Quantum Gravity*, **2020**, 37, 235007	3.3	4
6	A SHARC DSP cluster as HERA-B DAQ building block. *IEEE Transactions on Nuclear Science*, **1997**, 44, 403-406	1.7	3
5	COBEX: a collider beauty experiment for the LHC. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1994**, 351, 132-146	1.2	3
4	. *IEEE Transactions on Nuclear Science*, **1994**, 41, 796-803	1.7	2
3	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA **2018**, 21, 1		2
2	Data acquisition in the HERA-B and LHC era. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1996**, 384, 147-152	1.2	1

1 Point Absorber Limits to Future Gravitational-Wave Detectors.. *Physical Review Letters*, **2021**, 127, 241102 74 0